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JP U.M. Application Disclosure No. 62-94659 - June 17, 1987

U.M. Application No. 60-186493 - December 2, 1985

Applicant: K.K. Koken, Shiga, Japan

Title: Light-diffusion-type light emitting diode unit

Claim:

A light-diffusion-type light emitting diode unit,
comprising:

a light emitting diode element provided with a light emission
end having directivity; and

a transparent light diffusing member provided with a light
diffusing and emitting surface at one end, and a coupling hole
at the other end, which extends from the other end to the light
diffusing and emitting surface and forms a granular material
chamber at the internal end, characterized in that

the granular materials are allotted to the granular material
chamber of the light diffusing member, and the light emission
end of the light emitting diode element is coupled with the
granular materials via the coupling hole provided in the light
diffusing member, so that the light emitting end faces the
granular materials.

Brief Explanation of Drawings:

Fig. 1 is a sectional side view showing the basic structure
of a light-diffusion-type light diode unit according to the
present utility model. Fig. 2 is an exploded sectional side view
showing an example of a different coupling portion of the light
emitting diode element and the light diffusing member. Figs. 3A
and 3B are side views with their halves as sectional views,
showing the different light diffusing members.

1 ... light-diffusion-type light diode unit, 2 ... light
emitting diode element, 3 ... light diffusing member, 7 ... light

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emission end, 8 ... coupling part, 10 ... light emitting and
diffusing surface, 12 ... coupling hole, 15 ... space, 16 ...
transparent granular materials